10/771,774

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2619	((544/284) or (544/293) or (544/244) or (544/122)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 11:53
L2	239	(423/316).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 11:53
L3	1074	((514/87) or (514/234.5) or (514/266. 2)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 11:53
L4	2381	L1	US-PGPUB; USPAT	OR	OFF	2006/09/11 11:53
L5	3203	L1 or L2 or L3 or L4	US-PGPUB; USPAT	OR	OFF	2006/09/11 11:54
L6	547	L5 and (anilino or phenylamino)	US-PGPUB; USPAT	OR	OFF	2006/09/11 11:54
L7	338	L6 and (quinazolin or quinazolinyl or quinazoline)	US-PGPUB; USPAT	OR	OFF	2006/09/11 11:54

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NEWS 6 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 7 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAplus and
                    USPATFULL/USPAT2
NEWS 8 MAY 30
                   The F-Term thesaurus is now available in CA/CAplus
NEWS 9 JUN 02
                   The first reclassification of IPC codes now complete in
                    INPADOC
NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
                   and display fields
NEWS 11 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL NEWS 12 JUl 11 CHEMSAFE reloaded and enhanced NEWS 13 JUl 14 FSTA enhanced with Japanese patents NEWS 14 JUl 19 Coverage of Research Disclosure reinstated in DWPI NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/CAplus(SM) Austrian patent law changes
NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
                MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
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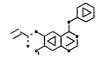
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chain nodes :

11 18 19 20 21 22 23

ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17

chain bonds :

2-23 3-18 7-11 11-12 18-19 19-20 19-22 20-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-17 13-14 14-15 15-16 16-17 exact/norm bonds:
2-23 3-18 7-11 11-12 18-19 19-22 exact bonds:
19-20 20-21 normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-17 13-14 14-15 15-16 16-17 isolated ring systems: containing 1: 12:

G1:0, S, N

Hydrogen count :
9:= exact 1
Match level :
1:2ton 2:2ton

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

=> d 11 L1 HAS NO ANSWERS L1 STR

G1 O, S, N

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 09:54:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 561 TO ITERATE

100.0% PROCESSED 561 ITERATIONS 416 ANSWERS

SEARCH TIME: 00.00.01

L2 416 SEA SSS FUL L1

=> file hcaplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

166.94 167.15

FILE 'HCAPLUS' ENTERED AT 09:54:47 ON 11 SEP 2006
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=> s 12

L3 130 L2

=> s 13 not py>2003

3249455 PY>2003

L4 25 L3 NOT PY>2003

=> d his

(FILE 'HOME' ENTERED AT 09:54:02 ON 11 SEP 2006)

FILE 'REGISTRY' ENTERED AT 09:54:17 ON 11 SEP 2006

L1 STRUCTURE UPLOADED

L2 416 S L1 FUL

FILE 'HCAPLUS' ENTERED AT 09:54:47 ON 11 SEP 2006

L3 130 S L2

L4 25 S L3 NOT PY>2003

=> d 14 1- ibib abs hitstr
YOU HAVE REQUESTED DATA FROM 25 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2004:197494 HCAPLUS DOCUMENT NUMBER: 11:23530 Emerging roles of targeted enditing

141:235330
Emerging roles of targeted small molecule protein-tyrosine kinase inhibitors in cancer therapy Smith, John K., Namoon, Naila M., Duhe, Roy J. Department of Pharmacology and Toxicology, University of Mississippi Medical Center, Jackson, MS, 39216-4505, USA AUTHOR(S): CORPORATE SOURCE:

or Nississippi Medical Center, Jackson, MS, 39216-4505, USA
Oncology Research (2003), 14(4/5), 175-225
CODEN: ONREES: ISSN: 0965-0407
Cognizant Communication Corp.
Journal: General Review

SOURCE:

PUBLISHER:

DOCUMENT TYPE:

A review. Targeted protein-tyronine kinase inhibitors (PTKIs) comprise a new, rapidly evolving class of low mol. weight anticancer drugs. Two

new, rapidly evolving class of low mol. weight anticancer drugs. Two
mers
of this class, inatinib (Gleevec) and gefitinib (Iressa), are currently
approved for market use in the United States. This review discusses the
scientific history behind these two PTRI drugs, including the role of the
targeted kinase in cancer etiol., the biochem of selective inhibition,
the evaluation of clin. efficacy, and the mechanisms whereby drug
resistance has merged. Other PTRIs undergoing clin. evaluation are also
described, including epideraal growth factor receptor kinase inhibitors
(erlotinib, PKI166, and Cl-1033) and PTRIs designed to disrupt tumor
vascularization (SU5416, SU5668, SU11248, PTR787, and ZD5474). How might
one apply current knowledge to the efficient development of new agents
that would target as-yet-unexploited oncogenic PTRs such as chimeric
anaplastic leukemia kinases or Janus kinases. Ideally, the targets should
contain structurally distinct drug interaction epitopes, although it is
not necessary that these epitopes be unique to a single target, because
effective drugs may inhibit multiple kinases involved in an oncogenic
process. Oral availability is a highly desirable feature because daily
oral administration can maintain a sustained efficacious plasma
metration,

oral administration can maintain a sustained efficacious pleasme centration, whereas intermittent parenteral administration may not. Perhaps most importantly, one must verify the presence of an appropriate mol. target on a case-by-case basis before selecting a patient for FRI therapy. Thus, the development of molecularly targeted diagnostic tools will be crucial to the ultimate success of molecularly targeted PTKI therapy. 28949-45-2, CT-1033
RL: DMA (Drug mechanism of action), PAC (Pharmacological activity), THU (Therapeutic use), BIOL (Biological study), USES (Uses)
(spidermal growth factor receptor kinase inhibitor CT-1033 is designed to disrupt tumor vascularization and used in treatment of cancer therapy)

the rapy HCAPLUS
299499-45-2 HCAPLUS
2-Propenamide, N-(4-[(3-chloro-4-fluorophenyl)amino]-7-[3-(4-morpholinyl)propoxy)-6-quinazolinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2003:1000449 HCAPLUS

DOCUMENT NUMBER: TITLE:

SOURCE:

PLWS COPYRIGHT 2006 ACS on STN 2003:100049 HCAPLWS 140:35213 CI-1033, an irreversible pan-erbB receptor inhibitor and its potential application for the treatment of breast cancer Allen, Lee F., Elseman, Irene A.; Fry, David W.;

AUTHOR (S):

Lenehan, Peter F.

Departments of Clinical Development, Oncology and
Cancer Pharmacology, Pfizer Global Research and
Development, Ann Arbor Laboratories, Ann Arbor, MI, CORPORATE SOURCE:

Seminars in Oncology (2003), 30(5, Suppl. 16), 65-78 CODEN: SOLGAV: ISSN: 0093-7754 W. B. Saunders Co. Journal: General Review

PUBLI SHER:

LISHER: W. B. Saunders Co.

MEMT TYPE: Journal, General Review

SUAGE: English

A review. The etbB family of cell surface receptor proteins consists of
four members, all of which play a role in the development and growth of
the normal breast. The activity of this signaling pathway is normally
tightly controlled, and dysregulation has been shown to play a significant
role in the pathogenesis and progression of breast and other cancers. The
potent transforming potential of these receptors is further enhanced by
the coexpression of multiple members of this receptor family, which
worsens prognosis. Therapeutic blockade of erbB-2 receptor signaling has
to date been shown to be effective in only a subset of
chemotherapy-resistant breast cancer patients. CI-1033 is a highly potent
and selective pan-erbB inhibitor that efficiently blocks signal
transduction through all four members of the erbB receptor family. In
addition, it covalently binds to these receptors, irreversibility inhibiting
them, and thereby provides for prolonged suppression of erbB
receptor-mediated signaling. Clin., it has been shown to have an
acceptable side effect profile at potentially therapeutic doses and
schedules. Biomarker studies have shown target inhibition in patients,
and evidence of antitumor activity has also been observed in phase I

is a valuence or antitumor activity has also been observed in phase I ites.

Given the broad expression pattern of the erbB family of receptors in solid tumors, and the important proliferative effect of co-expression of multiple erbB receptors, CI-1033, as an irreversible, pan-erbB inhibitor, has the potential to have an important role in the future treatment of breast and other cancers.

289499-45-2, CI-1033

AL: ADV (Adverse effect, including toxicity): FAC (Pharmacological activity): TBU (Thetapeutic use): BIOL (Biological study): USES (Uses) (potential use of pan-erbB receptor inhibitor CI-1033 for treatment of breast cancer)

289499-45-2 HCAPLUS
2-Propenamide, N-[4-[(3-chloro-4-fluorophenyl) amino]-7-[3-(4-morpholinyl) propoxy]-6-quinazolinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

ANSWER 1 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

●2 HC1

REFERENCE COUNT

THERE ARE 422 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

ANSWER 2 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

●2 HC1

REFERENCE COUNT:

101 THERE ARE 101 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSWER 3 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2003:8967 HCAPLUS DOCUMENT NUMBER: 193:62338 Small molecule byronine kinese

139:62338
Small molecule tyrosine kinase inhibitors: clinical development of anticancer agents
Laird, A. Douglas: Cherrington, Julie M. SUGEM, Inc., South San Francisco, CA, 94080, USA Expert Opinion on Investigational Drugs (2003), 12(1), 51-64
CODEM: EGIDER: ISSN: 1354-3784
Ashley Publications Ltd.
Journal: General Review
English AUTHOR(S): CORPORATE SOURCE: SOURCE:

PUBLISHER: DOCUMENT TYPE:

PUBLISHER: Ashley Publications Ltd.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review. Numerous small sol. synthetic tyrosine kinase inhibitors are in clin. development for the treatment of human cancers. These fall into three broad categories: inhibitors of the spidermal growth factor receptor tyrosine kinase family (e.g., Iressa and Tarceva), inhibitors of the split kinase domain receptor tyrosine kinases subgroup (e.g., PTX787/ZK 22254 and SU1248) and inhibitors of tyrosine kinases from multiple subgroups (e.g., Gleevec). In addition, agents targeting other tyrosine kinases implicated in cancer, such as Met. Tit-2 and Src, are in preclin. development. As experience is gained in the clinic, it has become clear that unleashing the full therapeutic potential of tyrosine kinase selection, knowledge of mechanism-based side effects and ways to predict and overcome drug resistance.

17 28949-45-2, CT-1033
RI: PAC (Pharmacological activity), THU (Therapeutic use), BIOL (Biological study), USES (Uses)

(small mol. tyrosine kinase inhibitors and clin. development of anticancer agents)

RN 28949-45-2 HCAPLUS

2-Propenantic, N-(4-[(3-chloro-4-fluorophenyl)amino)-7-[3-(4-morpholinyl)propoxyl-6-quinazolinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

REFERENCE COUNT:

127 THERE ARE 127 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

ACCESSION NUMBER:

DOCUMENT NUMBER:

ANSWER 4 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

2551ON NUMBER: 2002:974164 HCAPLUS

Li 2002:974164 HCAPLUS

Clinical evaluation of agents targeting epidermal growth factor receptor (EGFR) in cancer

LIN (S): Lin, Edward H., Abbruzese, James L.

Department of Gastrointestinal Medical Oncology, The University of Texas M.D. Anderson Cancer Center, Houston, TX, USA

LCE: Oncogene-Directed Therapies (2003), 313-330.

Editor(s): Rak, Janusz. Humana Press Inc.: Totowa, N. J. AUTHOR (S): CORPORATE SOURCE:

SOURCE:

CODEN: 69DKTX; ISBN: 0-89603-982-X Conference; General Review

DOCUMENT TYPE:

CODEM: 69DKTR; ISBN: 0-99Sd-3-98Z-X

COMErence; General Review

UMGE: English

A review. Proteins encoded by oncogenes and tumor-suppressor genes are
the essential signaling components of the complex cellular signaling
networks. Cancer arises from a multi-step process promoted by the
imbalanced growth signals as a consequence of gain of oncogene and/or loss
of tumor suppressor genes. The six essential cancer hallmarks include
persistent cell growth signals, insensitivity to anti-growth signals,
evasion of apoptosis, persistent angiogenesis, gain of cell immortality,
and tumor invasion and metastasis. As an oncogene, gain of epidermal
growth factor receptor (EGFR) function is achieved through EGFR
over-expression and has been shown to be associated with almost all the six
essential hallmarks of cancer except the gain of cell immortality. In
various exptl. models, EGFR inhibition leads to regression of tumor cell
growth, inhibition of angiogenesis, induction of apoptosis, and inhibition
of tumor invasion and metastasis. Furthermore, over-expression of EGFR
frequently observed in a number of human cancers, is associated with poor
all

trequencity observed in a number of human cancers, is associated with poor sell prognosis, increased tumor recurrence, and decreased patient survival. The hypothesis that EGFR might be a cancer therapeutic target was proposed by Mendelsohn in the early 1980s; emerging only recently are the promising clin. trial results from a number of EGFR antagonists in different human cancers. This review will discuss the clin. developments and future directions of EGFR antagonists in cancer treatment.

28499-45-2, CI-1033
RL: DMA (Drug mechanism of action), PAC (Pharmacological activity), THU (Therapeutic use); BIOL (Biological study), USES (Uses) (clin. evaluation of agents targeting epidermal growth factor receptor (EGFR) in cancer; 28499-45-2 EKCAPUS
2-Propenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

ANSWER 3 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

ANSWER 4 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HC1

REFERENCE COUNT:

THERE ARE 135 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE 135

L4 ANSWER 5 OF 25
ACCESSION NUMBER:
DOCUMENT NUMBER:
DOCUMENT NUMBER:
1138:180074
Potential benefits of the irreversible pan-erbB inhibitor, CT-1033, in the treatment of breast cancer Allen, Lee F., Lenehan, Peter F., Eisenan, Irene A., Elliott, William L., Fry, David W.

CORPORATE SOURCE:

CORPORATE SOURCE:

Departments of Clinical Development, Oncology, and Cancer Pharmacology, Pfizer Global Research and Development, Ann Arbor, MI, USA
Seminars in Oncology (2002), 29(3, Suppl. 11), 11-21
COURN: SOLGAV: ISSN: 0093-7754
W. B. Saunders Co.

JOURNEST TYPE:
JOURNALL SOURCE:
English
Seminar Sources
English
Engl

DOCUMENT TYPE: LANGUAGE:

ISHER: W. B. Saunders Co.

WENT TYPE: Journal; General Review
UAGE: English
A review. Transmembrane receptor Tyr kinases were shown to play an
important role in the modulation of growth factor signaling and regulation
of key cellular processes. The erbB receptor family is part of the
receptor Tyr kinase superfamily and consists of 4 members, erbB-1, erbB-2,
erbB-3, and erbB-4. A najority of solid tumors express 1 or more members
of this receptor family, and coexpression of multiple erbB receptors leads
to an enhanced transforming potential and worsened prognosis. The erbB
receptor family was shown to play an important role in both the
development of the normal breast and in the pathogenesis and progression
of breast cancer. Receptor overexpression was also shown to be a neg,
prognostic indicator and to correlate with both tumor invasiveness and a
lack of responsiveness to standard treatment. Clin., blockade of the erbB
receptor has recently been shown to provide benefit in a subset of
chemotherapy-resistant breast cancer patients. CI-1033 is an orally
available pan-erbB receptor Tyr kinase inhibitor that, unlike the majority
of receptor inhibitors, effectively blocks signal transduction through all
4 members of the erbB family. In addition, it blocks the highly
rigenic.

of receptor inhibitors, errectively whose segments of the erbs family. In addition, it blocks the highly origenic, constitutively activated variant of erbs-I, EGFRVIII, and inhibits downstream signaling through both the Ras/MAP kinase, and PI-3 kinase/AXT pathways. CI-1033 is also unique in that it is an irreversible inhibitor, thereby providing prolonged suppression of erbs receptor-mediated signaling. Preclin. data have shown CI-1033 to be efficacious against a variety of human tumors in mouse menograft models, including breast carcinomas. In a phase I study, CI-1033 was shown to have an acceptable side effect profile at potentially therapeutic dose levels and demonstrates evidence of target biomarker modulation. Antitumor activity was also observed in this study, including I partial clin. response and stable disease in over 30% of patients, including I patient with heavily pretreated breast cancer. By virtue of its pane-erbs receptor inhibition and potent interruption of downstream mitogenic signaling pathways, CI-1033 may have clin. activity for solid tumors that overexpress I erbs family member, coexpress multiple members of the erbs family, or express a constituitely activated, mutated form of these receptors. Given the important role of the erbs receptor family in the pathogenesis and progression of breast cancer, an irreversible pan-erbs inhibitor like CI-1033 could have an important role to play in the future treatment of breast cancer.

CI-1035 COURD have an Important role to play in the future treat breast cancer.
289499-45-2, CI-1033
RE: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(CI-1033 in treatment of breast cancer)

L4 ANSWER 6 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2002:604225 HCAPLUS

2002:604225 HCAPLUS 138:162767 DOCUMENT NUMBER:

138:162767
BGF signal transduction and its molecular targeted drugs against cancer
Sone, Saburo; Namamoto, Akihiko
Dep. Internal Hed. Molecular Therapeutics, Univ.
Tokushima Sch. Hed., Japan
Saishin 1gahu (2002), 57(7), 1712-1717
CODEN: SAIGAK: ISSN: 0370-8241

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

Saishin Igakusha Journal: General Review PUBLISHER: DOCUMENT TYPE:

LANGUAGE:

Japanese
A review. The spidermal growth factor receptor (EGFR) and its inhibition
in cancer therapy is reviewed together with the mechanism related to EGF
signal transduction of antitumor agents such as EGFR antibody (C225) and
EGFR tyrosine kinase inhibitors (201839, 051-774, and C1-1033).
289499-45-2, C1-1033
RL: PRC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(EGF signal transduction and its mol. targeted drugs against cancer)
289499-45-2 ECAPLUS
2-Propenamide, N-[4-[3-chloro-4-fluorophenyl)amino]-7-[3-(4moorpholinyl)propoxy]-6-quinazolinyl]-, dihydrochloride (9CI) (CA INDEX
NAME)

●2 HC1

ANSVER 5 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) 299499-45-2 HCAPLUS 2-Propensaide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-[3-(4-morpholinyl)propoxyl-6-quinazolinyl]-, dihydrochloride (9CI) (CA INDEX

●2 HC1

REFERENCE COUNT

THERE ARE 108 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 25 HCAPLUS ACCESSION NUMBER: 2002 DOCUMENT NUMBER: 138: TITLE:

PLUS COPYRIGHT 2006 ACS on STN
2002:414301 RCAPLUS
138:32893
Drug-induced ubiquitylation and degradation of ErbB
receptor tyrosine kinases: implications for cancer
therapy
Cittl, Anis Alroy, Iris, Lavi, Saras Rubin, Chanans
Xu, Vanping, Grammatikakis, Nicolas; Patterson, Cams
Neckers, Len: Fry, David W., Yarden, Yosef
Department of Biological Regulation, The Weizmann
Institute of Science, Rehovot, 76100, Israel
PMBO Journal (2002), 21(10), 2407-2417
COMEN: EMODOS, ISSN: 0261-4189
Oxford University Press
Journal AUTHOR (S): CORPORATE SOURCE:

SOURCE:

PUBLI SHER:

DOCUMENT TYPE:

ISHER: Oxford University Press

MENT TYPE: Journal

UAGE: English

Overexpression of ErbB-2/HER2 is associated with aggressive human
malignancies, and therapeutic strategies targeting the enceprotein are
currently in different stages of clin. application. Tyrosins kinase
inhibitors (FKIs) that block the nucleotide-binding site of the kinase are
especially effective against tumors. Here the authors report an unexpected
activity of FKIs: along with inhibition of tyrosine phosphorylation, they
enhance ubiquitylation and accelerate endocytosis and subsequent
intracellular destruction of ErbB-2 mols. Especially potent is an
versible

intracellular destruction or name a constant specific to ErbB receptors. The TRI (CI-1033) that alkylates a cysteine specific to ErbB receptors. The degradative pathway stimulated by TRIs appears to be chaperone mediated, and is common to the heat shock protein 90 (Hsp90) antagonist galdnamycin and a stress-induced mechanism. In agreement with this conclusion, CI-1033 and geldanamycin additively inhibit tumor cell growth. Based upon a model for drug-induced degradation of ErbB-2, the authors propose a ceneral

strategy for selective destruction of oncoproteins by targeting their

strategy for selective destruction of oncoproteins by targeting their interaction with mol. chaperdnes.
29949-45-2, CI-1033
R1. DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (drug-induced ubiquitylation and degradation of ErbB receptor tyrosine kinases and implications for cancer therapy with tyrosine kinase inhibitors and Hsp90 antagonist geldanamycin)
299499-45-2 HCAPLUS
2-Propenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl}-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 7 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HC1

REFERENCE COUNT

THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 32

ANSWER 8 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HC1

REFERENCE COUNT:

18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ACCESSION NUMBER

DOCUMENT NUMBER:

AUTHOR (S):

CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

SOUTHORY.

ANSWER 8 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ESSION NUMBER: 2002:122440 HCAPLUS

MEMT NUMBER: 137:329330

ES: discovery screening tool for plasma protein binding

MOR(S): Buchholz, Lisar Cai, Chun-Hua; Andress, Larry Cleton,

Adriaan; Brodfuehrer, Joannes Cohen, Lucinda

Development, Ann Arbor, MI, 48105, USA

MCE: Pharmacokinetics, Pfizer Global Research and

Development, Ann Arbor, MI, 48105, USA

MCE: Elsevier Science Ltd.

MEMT TYPE: Journal

SUNGE: Sengish

A total of 69 ccmpds. with a variety of chemical structures were assayed

using a human serum albumin column in combination with UV and mass

spectrometric detection. A moderate correlation, R2-0.661, between the

plasma protein binding, determined by traditional techniques of equilibrium

yors

or ultrafiltration, and chromaton, retention factor (k'/k'-t) was observed

plasma protein binding, determined by traditional techniques of equilibrium dialysis or ultrafiltration, and chromatog, retention factor (k'/k'+l) was observed Disparity between the regression line and numerous samples was observed across the entire range of plasma protein binding. Attempts to discriminate between compds. from the data set to achieve better correlation based physico-chemical properties were unsuccessful. Good agreement was observed for retention times obtained with UV detection with mobile phase containing phosphate buffer and mass spectrometric detection with

mobile phase containing acetate buffer. Essentially identical data were obtained for compds. analyzed in singlet or cassette for minimally or highly bound (>90% bound) compds. Anal. of cassettes containing compds.

highly bound (990 bound) compds. Anal. of cassettes containing compds.

plasma protein binding greater than 900 did not cause column overload, even at analyte concns. up to 100 µg/ml. Diverse results were obtained when chromatog, retention was used to rank order various classes of compds. Better correlation with ordering from known binding was obtained when a compound class contained a wide range of protein binding, in contrast to when compds. within a given class were all highly bound.
289499-6-2. PD 0183805

RL: ANT (Analyte); ANST (Analytical study)
(evaluation of human serum albumin column as a discovery screening tool for plasma protein binding)
289499-6-2 ECAPLUS
2-Propenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 25
ACCESSION NUMBER:
DOCUMENT NUMBER:
136:395481
Differential sensitivity of cancer cells to inhibitors of the epidermal growth factor receptor family
Bishop, Philippe C.: Myers, Timothy, Robey, Robert;
Fry, David W.; Liu, Edison T.; Blagosklonny, Mikhail
V.; Bates, Susan E.
CORPORATE SOURCE:
Oncogene (2002), 21(1), 119-127
CODEN: ONCNES; ISSN: 0950-9232
PUBLISHER:
DOCUMENT TYPE:
Nature Publishing Group
Journal

DOCUMENT TYPE: LANGUAGE:

ISHER: Nature Publishing Group
MENT TYPE: Journal
UNAGE: English
Clin. responses to the HER1 (EGF receptor) inhibitors and HER2/neu/ErbB2
inhibitors correlate with high levels of receptor expression. However, a
significant subset of patients with high receptor levels appear to be
refractory to treatment. We have observed similar results in the 60 cell
lines of the NC1 Anti-Cancer Drug Screen using a panel of 11 selective
HERR inhibitors. As expected, low HERR-expressing cell lines were
insensitive to HERI inhibitors in cell lines with high HERI expression,
low concess of HERN inhibitors potently inhibit both HERI phosphorylation
and the mitagen-activated protein kinase (MAPK) pathway. However, this
inhibition did not always correlate with cellular arrest. High
HERI-expressing cell lines can be subdivided into two groups based on
their sensitivity to HERI inhibitors. In the sensitive group, receptor
and growth inhibition was concordant and occurred at submicromolar concess.
of HERI inhibitors. In the insensitive group, receptor inhibition
occurred at a lew concentration (< 1 m) but concents the were ten times or

occurred at a low concentration (< 1 M) but concent. that were ten times or terr required for growth inhibition. Also, neither induction of p21 and cyclin D1 nor p53 status could explain the difference between sensitive and insensitive cells. Although EGF activated the MAPK pathway in all cell lines, only drug-sensitive cell lines responded to EGF (accelerated entry from 61 to 5) and to HERI inhibitors (G1 acres) by changes in cell cycling. Furthermore, an EGF-dependent immortalized mammary epithelial cell line was extremely sensitive to a panel of HERI inhibitors. We infer that independence from sitogen-mediated signaling confers insensitivity to HERI inhibitors. We infer that independence from sitogen-mediated signaling confers insensitivity to HERI inhibitors. We infer that independence from sitogen-mediated signaling confers insensitivity to HERI inhibitors. We infer that independence from sitogen-mediated signaling confers insensitivity (The HERI inhibitors. We infer that independence from sitogen-mediated signaling confers insensitivity to (Biological study), USES (Uses)

(F0 183805; sensitivity of cancer cells to inhibitors of EGF receptor family)

2-Yeopenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl]-, dihydrochloride (SCI) (CA INDEX NAME) higher

L4 ANSWER 9 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HC1

REFERENCE COUNT:

THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 33

L4 ANSWER 10 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:74864 HCAPLUS
DOCUMENT NUMBER: 137:134227
TITLE: Epidermal growth factor receptor tyrosine kinase inhibitors in cancer therapy
AUTHOR(S): Adjel, Alex A.
CORPORATE SOURCE: Division of Medical Oncology, Mayo Clinic and Foundation, Rochester, HN, 55905, USA
Drugs of the Puture (2001), 26(11), 1087-1092
CODEN: DRRUD4; ISSN: 0377-0282
PUBLISHER: Prous Science
DOCUMENT TYPE: Journals General Review
LANGUAGE: Border tyrosine kinases are transmembrane proteins involved in signal transduction. They propagate growth factor signals from the cell surface to intracellular processes that control critical functions such as growth, differentiation, angiogenesis and inhibition of apoptosis. In malignancies, these signaling pathways are often exploited to optimize tumor growth and metastasis. One such family of receptor tyrosine kinases is the epidermal growth factor receptor (EGFR) tyrosine kinases. These receptors are overexpressed in a wide variety of spithelial cancers and have been implicated in tumor aggressiveness. Thus, targeting the EGFR tyrosine kinase has attracted considerable attention. This review will summarize current preclin. and clin. knowledge of the small-mol. oral inhibitors of the EGFR tyrosine kinase, which include 2D-1839, OSI-774, CI-1033, EMB-569, PKI-166, GW-2016 and BIEX-1382.

I7 289499-45-2 (CI-1033
RL: DMA (Drup mechanism of action); PAC (Pharmacological activity); THJ (Therapeutic use); BIOL (Biological study); USES (Uses) (epidermal growth factor receptor tyrosine kinase inhibitors in cancer therapy)

RN 289499-45-2 HCAPLUS
CN 2-Propenamide, N-{4-[(3-chloro-4-fluorophenyl)aminol-7-[3-(4-morpholinyl)propoxyl-6-quinazolinyl]-, dihydrochloride (SCI) (CA INDEX NAME)

●2 HC1

REFERENCE COUNT:

39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) L4 ANSWER 11 OF 25 HCAPLUS COFYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
136:84677
HAthods for enhancing antibody-induced cell lysis and treating cancer
INVENTOR(S):
SOURCE:
COUNCEL TYPE:

DOCUMENT TYPE:

HAPPLO ACPT ASSIGNEE (S):
CODM: PIXXO2
Patent
Pa DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English

FALL	at information:						
	PATENT NO.		APPLICATION NO.	DATE			
			WO 2001-US20154	20010622			
		A3 20030123					
			BA, BB, BG, BR, BY, BZ				
			DZ, EC, EE, ES, FI, GB				
			JP, KE, KG, KP, KR, KZ				
			K, MN, MW, MX, MZ, NO				
			SL, TJ, TM, TR, TT, TZ				
			KG, KZ, MD, RU, TJ, TM				
			SL, SZ, TZ, UG, ZW, AT				
			IE, IT, LU, MC, NL, PT				
			SW, ML, MR, NE, SN, TD				
			CA 2001-2410371				
			US 2001-888326				
			EP 2001-948684				
			GB, GR, IT, LI, LU, NL	SE, MC, PT,			
		LV, FI, RO, MK, C					
		T2 20031202	JP 2002-503327	20010622			
PRIC	RITY APPLN. INFO.:		US 2000-213346P	P 20000622			
			WO 2001-US20154				
AB	The invention relat	es to methods and	products for treating	cancer. In			
			combinations of nuclei				
	antibodies for the	treatment and prev	vention of cancer. The	invention also			
			reening cancer cells.				
ΙT	289499-45-2, PD 183	805					
			logical study); USES (
	(immunostimulato	ry nucleic acids	and antibody specific	to CD20, CD22,			
	CD19 or CD40 for	inducing cell lys	sis and treating cance:	r)			

29499-45-2 HCAPLUS
2-Propenantide, N-[4-[(3-chloro-4-fluorophenyl) amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HC1

ANSWER 12 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

●2 HC1

19

REFERENCE COUNT:

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSVER 12 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:921399 HCAPLUS
DOCUMENT NUMBER: 137:72358
TITLE: C1-1033, a pan-erbB tyrosine kinase inhibitor
AUTHOR(S): Slichenmyer, Villiam J., Elliott, Villiam L., Fry,
David V.
CORPORATE SOURCS: Department of Cancer Research, Pfizer Global Research
and Development, Ann Arbor. MI, 48105, USA
SOURCE: Seminars in Oncology (2001), 28(5, Suppl. 16), 80-85
COEMS: SOLGAV: ISSN: 0093-7754
PUBLISHER: V. B. Saunders Co.
DOCUMENT TYPE: Journal, General Review
LANGUAGE: English
AB A review. Overexpression of the erbB family of receptor tyrosine kinases has been implicated in a variety of tumors including breast, lung, prostate, and brain. Most solid tumors express one or more of these receptors, which can often be related to tumor aggressiveness and poor patient prognosis. C1-1033, a pan-erbB tyrosine kinase inhibitor, is a clin. promising agent that is active against all four members of the erbB receptor tyrosine kinase activity. This inhibition is highly selective for erbBI (epidermal growth factor receptor), erbB2, erbB3, and erbB4 without inhibiting tyrosine kinase activity of receptors such as platelet-derived growth factor receptor, fribroblast growth factor receptor, and insulin receptor, erbcor, and insulin receptor. even at high conens. Treatment of athymic node mice bearing zenografts of human A431 spidermoid carcinoma, H125 non-small call lung carcinoma, and S7-167 glioblastoma results in highly significant suppression of tumor growth. The major toxicity in animals is dierthea, which is more severe at higher doses. In animal models, all side effects are reversible on cessation of treatment. Thus, C1-1033, which is currently undergoing phase I clin. trials, holds significant potential for use in a broad range of solid tumors.

IT 28949-45-2, C1-1033
RL: PAC (Pharmacological activity): THU (Therapeutic use): BIOL
(Biological study): USES (USes)
(C1-1033, a pan-erbB tyrosine kinase inhibitor)
RN 28949-45-2 ECABLUS

C2-Propenamide, N-1-1-1-1-1-1-1-1-1-

L4 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:
DOCUMENT NUMBER:
137:87979
Anticancer therapy targeting the ErbB family of receptor tyrosine kinases
Slichemyer, William J., Fry, David W.
Departments of Oncology Clinical Development and Cancer Research, Pfizer Global Research and Development, Ann Arbor, MI, 48105, USA
SOURCE:
PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
4 CAPPER SOURCE:
5 Support SoldAy, ISSN: 0093-7754
W. B. Saunders Co.
DOCUMENT TYPE:
JOURNAL SAUNDERS English
English

LANGUAGE

JISHER: W. B. Saunders Co.

WENT TYPE: Journal

WASH TYPE: Journal

Several agents that target one or more members of the erbB family of

receptor tyrosine kinases are currently undergoing clin. investigation.

The monoclonal antibody trastuzumab has been shown effective in

erbB2-expressing metastatic breast cancer when administered as a single

agent or in combination with cytotoxic chemotherapy. Toxicities associated

with trastuzumab include infusion-related fever and chills,

hypersensitivity reactions, and congestive heart failure. C225 is a

monoclonal antibody directed against the epidermal growth factor receptor,
which has shown encouraging antitumor activity in early clin. development.

The orally active tyrosine kinase inhibitors show encouraging antitumor

activity in preclin. models and early clin. trials. Members of this class

currently in clin. development include 201839, 051774, and C1-1033.

Evidence to data suggests that the major role for erbB receptor-targeting

drugs viil be in combined therapy to enhance response to cytotoxic drugs,

and in long-term monotherapy to maintain response and prevent disease

progression or recurrence.

289499-45-2, C1-1033

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(anticancer therapy targeting the ErbB family of receptor tyrosine

kinases)

28499-5-2 HCAPLUS

2-Propenamide, N-(4-[(3-chloro-4-fluorophenyl)amino]-7-[3-(4
morpholinyl)propoxyl-6-quinazolinyl)-, dihydrochloride (9CI) (CA INDEX

NAME)

●2 HC1

REFERENCE COUNT: 125 THERE ARE 125 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE L4 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN FORMAT (Continued)

LA ANSWER 14 OF 25 HEAPILIS COPYRIGHT 2006 ACS on STN (Continued) L4 ANSVER 14 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:800795 HCAPLUS
DOCUMENT NUMBER: 136:95729
Fivience for epidermal growth factor receptor-enhanced chemosensitivity in combinations of cisplatin and the new irreversible tyrosine kinase inhibitor CI-1033 - (1989)
AUTHOR(S): Gieseg, Michael A.; De Bock, Charles; Ferguson, Lynnette R.; Denny, William A.
CORPORATE SOURCE: Auckland Cancer Society Research Centre, Faculty of Medical a Health Sciences, The University of Auckland, Auckland, 1000, N. Z.

SOURCE: Anti-Cancer Drugs (2001), 12(8), 683-690
CODEN: ANTDEY, ISSN: 0959-4973
Lippincott Williams & Wilkins
DOCUMENT TYPE: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: Regist Regist
AB Irreversible inhibitors of the epidermal growth factor receptor (EGFR) are showing promise in clin. trials. This report is the first to show that inhibition of the EGFR tyrosine kinase by an irreversible binder synergizes with cisplatin, at least in EGFR-overspressing tissue culture cell lines in vitro. Unlike previous synergies demonstrated between ErbEZ blockade and DRA-damaging drugs, the synergy between the irreversible EGFR inhibitor and cisplatin does not appear to involve the repair of DRA-cisplatin adducts. Given the current clin. data, this combination may be of more than theor. interest.

17 289499-45-2, CI-1033
RN: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(evidence for EGFR-enhanced chemosensitivity in combinations of cisplatin and CI-1033)
RN 289499-45-2 (ELAPLUS

NAME)

- (CH₂) 3-0 H2C=CH-C-N

●2 BC1

REFERENCE COUNT:

39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 25
ACCESSION NUMBER:
DOCUMENT NUMBER:
1156:112324
1156:112324
Sequential tumor biopsies in early phase clinical trials of anticancer agents for pharmacodynamic evaluation
Dowlati, Afshin, Hasga, John; Remick, Scot C.; Spiro, Timothy P.; Gerson, Stanton L.; Liu, Lili; Berger, Sosamma J.; Berger, Nathan A.; Willson, James K. V.
Division of Hematology/Oncology, Department of Medicine and Developmental Therapeutics Program, Ireland Cancer Center at University Rospitals of Cleveland and Cancer Center at University Rospitals of Cleveland, CM, 44106, USA
CUINCE:

PUBLISHER:
DOCUMENT TYPE:

Aserican Association for Cancer Research
Journal

DOCUMENT TYPE:

LANGUAGE:

GUAGE: English
In the setting of target-based anticancer drug development, it is critical

establish that the observed preclin. activity can be attributed to modulation of the intended target in early phase trials in human subjects. This paradigm of target modulation allows the authors to determine a Phase II or

dose (optimal biochem./biol. modulatory dose) that may not necessarily be the maximum tolerated dose. A major obstacle to target-based (often cytostatic) drug development has been obtaining relevant tumor tissue during clim. trials of these novel agents for laboratory anal. of the

cytostatic) drug development has been obtaining relevant tumor tissue during clin. trials of these novel agents for laboratory anal. of the active marker of drug effect. From 1989 to present, the authors have completed seven clin. trials in which the end point was a biochem. or biol. modulatory dose in human tumor tissues (not surrogate tissue). Eligibility enrollment required that patients have a biopsiable lesion either with computerized tomay. (CT) guidance or direct visualization and consent to sequential (pre and posttreatment) biopsies. A total of 192 biopsies were performed in 107 patients. All but 8 patients had sequential pre and posttreatment biopsies. Seventy-eight (73%) of the 107 patients had liver lesion biopsies. In eight patients, either one or both biopsies contained insufficient viable tumor tissue or no tumor tissue at all for anal. Of a total of 99 patients in whom the authors attempted to obtain paired biopsies, a total of 87 (88%) were successful. Reasons for failure included patient refusal for a second biopsy (n = 2), vasovagal reaction with first biopsy precluding a second biopsy (n = 1), subcapsular hepatic bleeding (n = 1), and most commonly obtaining necrotic tumor, fibrous, or normal tissue in one of the two sequential biopsies (n = 8). This is the first and largest reported series demonstrating that with adequate precautions and experience, sequential tumor biopsies are feasible and safe during early phase clin. trials.

289499-45-2, CI-1033

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(sequential human tumor biopsies in early phase clin. trials of anticancer agents for pharmacodynamic evaluation)

289499-45-2 HCAPLUS

289499-45-2 HCAPLUS

289499-45-2 HCAPLUS

289499-45-2 HCAPLUS

L4 ANSWER 15 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HC1

REFERENCE COUNT:

27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 16 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HC1

REFERENCE COUNT:

101 THERE ARE 101 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2001:799777 HCAPLUS
DOCUMENT NUMBER: 137:27578

AUTHOR(5): Claridello, Fortunator Tortora, Giampaolo
Corporate Source: Catedral growth factor receptor
Claridello, Fortunator Tortora, Giampaolo
Corporate Source: Catedral of Oncologia Medica. Dipartimento di
Endocrinologia e Oncologia Molecolare e Clinica,
Universita di Napoli "Federico II,", Naples, 80131,
Italy
SOURCE: Clinical Cancer Research (2001), 7(10), 2958-2970
CODEN: CORENT TYPE: Journal) General Review
LANGUMGE: American Association for Cancer Research
DOCUMENT TYPE: Journal) General Review
LANGUMGE: English
AB A review. The epidermal growth factor receptor (EGFR) autocrine pathway
contributes to a number of processes important to cancer development and
progression, including cell proliferation, apoptosis, angiogenesis, and
metastatic spread. The critical role the EGFR plays in cancer has led to an
extensive search for selective inhibitors of the EGFR signaling pathway.
The results of a large body of preclin, studies and the early clin. trials
thus far conducted suggest that targeting the EGFR could represent a
significant contribution to cancer therapy. A variety of different
approaches are currently being used to target the EGFR. The most
promising strategies in clin. development include monoclonal antibodies to
prevent ligand binding and small mol. inhibitors of the tyrosine kinase
enzymic activity to inhibit autophosphorylation and downstream
intracellular signaling. At least five blocking monoclonal antibodies
have been developed against the EGFR. Among these, IMC-225 is a chimeric
human-mouse monoclonal IgG1 antibody that has been the first anti-EGFR
targeted therapy to enter clin. evaluation in cancer patients in Phase II
and III studies, alone or in combination with conventional therapies, such
as addiotherapy and chemotherapy. A number of small mol. inhibitors of the
BOTR tyrosine kinase enzymic activity is also in development. Tesp.
201839 (ressa) are currently in Phase II and III development, resp.
201839 (ressa) are curren

L4 ANSWER 17 OF 25
ACCESSION NUMBER:
DOCUMENT NUMBER:
135:303907
ITILE:
INVENTOR(5):
PATENT ASSIGNEE(5):
SOURCE:
COULENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
FAITH INVENTOR SOURCE:
COULENT TYPE:
FAITH ASSIGNEE SOURCE:
COULENT TYPE:
FAITH ASSIGNEE(5):
FAMILY ACC. NUM. COUNT:
FAITH INVENTORMATION.
COURTE COUNTY
COUNTY
COURTE COUNTY
COU

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	KIND DATE	APPLICATION NO.	DATE			
		WO 2001-EP3694	20010331			
		BA, BB, BG, BR, BY, DZ, EE, ES, FI, GB,				
		KE, KG, KP, KR, KZ, MN, MW, MX, MZ, NO,				
RU, SD, SE,	SG, SI, SK, SL,	TJ, TM, TR, TT, TZ,	UA, UG, US, UZ,			
RW: GH, GM, KE,	LS, MW, MZ, SD,	KG, KZ, MD, RU, TJ, SL, SZ, TZ, UG, ZW,	AT, BE, CH, CY,			
		IE, IT, LU, MC, NL, GW, ML, MR, NE, SN,				
DE 10017539	A1 20011011	DE 2000-10017539 DE 2000-10040525	20000408			
CA 2403152	AA 20011018	CA 2001-2403152	20010331			
		AU 2001-63831 EP 2001-938076				
	DE, DK, ES, FR, LV, FI, RO, MK,	GB, GR, IT, LI, LU, CY. AL. TR	NL, SE, MC, PT,			
		JP 2001-575577 DE 2000-10017539				
PRIORITI REFUN. INTO.:		DE 2000-10040525	A 20000818			
OTHER SOURCE(S):	MARPAT 135:3039	WO 2001-EP3694 07	W 20010331			

nr³coabd

Title compds. [I; X = NCN, N; Rl = H, alkyl; R2 = (substituted) Ph, PhCH2; PhCH2CH2; R3 = H, alkyl; R4 = H, alkoxy, cycloalkoxy, cycloalkylalkoxy; A = (substituted) vinylene; B = bond, (fluoro)alkylene; D = substituted pyrcolidinyl, piperaidinyl, piperainyl, etc.], were prepared Thus, 4-[(3-chloro-(-fluorophenyl)amino]-6-[[4-(piperazin-1-yl)-1-oxo-2-buten-1-yl)amino]-7-cyclopropylaethoxyquinazoline (preparation given) in THF was treated with Et3M and then with 3-bromodihydrofuran-2-one in THF under ice cooling followed by stirring for 48 h at room temperature to give 56% 4-((3-chloro-4-fluorophenyl)amino]-6-[[4-(4-(2-oxotetrahydrofuran-3-yl)piperazin-1-yl]-1-oxo-2-buten-1-yl]amino]-7-

- ANSVER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) cyclopropylmethoxyquinazoline. The latter inhibited epidermal growth factor (EGF)-dependent proliferation of F/L-HERC cells with IC50 = 0.05

Factor (BGF)-dependent proliferation of F/L-HERC cells with IC50 = 0.05
nM.
365532-35-0P 365532-36-1P 365532-37-2P
365532-39-4P 365532-40-7P 365532-41-8P
365532-42-9P 365532-44-1P 365532-41-8P
365532-46-3P 365532-44-1P 365532-48-5P
365532-46-3P 365532-44-1P 365532-48-5P
365532-49-6P 367282-27-3P 367282-12-0P
367282-15-3P 367282-23-3P 367282-12-0P
367282-27-7P 367282-23-3P 367282-25-SP
367282-27-7P 367282-23-3P 367282-25-SP
367282-27-7P 367282-23-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREF (Preparation); USES (Uses)
(preparation of quinazolines as inhibitors of epidermal growth
factor-mediated signal transduction)
365532-35-0 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-(tetrahydro-2-oxo-3-furanyl)-1-piperazinyl]- (9CI)
(CA INDEX NAME)

365532-36-1 HCAPLUS
2-Butenamide, N={4-{(3-chloro-4-fluorophenyl)amino}-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-{4-{(1(2R)-tetrahydro-5-oxo-2-furanyl}methyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

365532-40-7 HCAPLUS
2-Propenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7(cyclopropylmethoxy)-6-quinazolinyl]-3-[1-(tetrahydro-5-oxo-3-furanyl)-4piperidinyl]- (9CI) (CA INDEX NAME)

365532-41-8 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-[(2S)-tetrahydro-5-oxo-2-furanyl]carbonyl]-1-piperazinyl]-(CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

L4 ANSWER 17 OF 25 HEAPLUS COPYRIGHT 2006 ACS on STN (Continued)

365532-37-2 HCAPLUS
2-Butenamide, N-[4-[13-chloro-4-fluorophenyl]amino]-7-(cyclopropylmethoxy)-6-quinacolinyl]-4-[4-[methyl(tetrahydro-2-oxo-3-furanyl)amino]-1-piperidinyl]-(9CI) (CA INDEX NAME)

365532-39-4 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-(tetrahydro-5-oxo-3-furanyl)-1-piperazinyl)- (9CI)
(CA INDEX NAME)

ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

365532-42-9 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-[2-[(tetrahydro-2-oxo-3-furanyl)thio]ethyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

365532-44-1 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-(3-oxo-2-oxa-8-azaspiro[4.5]dec-8-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

365532-45-2 HCAPLUS
2-Butenamide, N-{4-{13-chloro-4-fluorophenyl}amino}-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-(hexabydro-3-oxopyrazino[2,1-c]{1,4]oxazin-8(1H)-yl)-(9Cl) (CA INDEX NAME)

365532-46-3 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-(1-oxo-2-oxa-8-azaspiro[4.5]dec-8-yl)- (9CI) (CA INDEX NAME)

365532-47-4 HCAPLUS
2-Butenamide, N={4-{(3-chloro-4-fluorophenyl)amino}-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-(hexahydro-1-oxopyrazino[2,1-c][1,4]oxazin-8(1H)-yl)-(9Cl) (CA INDEX NAME)

ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

367282-07-3 HCAPLUS
2-Butenamide, N=[4-[(3-chloro-4-fluorophenyl) amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[methyl[1-(tetrahydro-2-oxo-3-furanyl)-4-piperidinyl]amino]- (SCI) (CA INDEX NAME)

367282-12-0 HCAPLUS
2-Butenamide, N=[4-[(3-chloro-4-fluorophenyl) amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[methyl[1-[(2S)-tetrahydro-5-oxo-2-furanyl]carbonyl]-4-piperidinyl]maino]-(SCI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L4 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

365532-48-5 HCAPLUS
2-Butenamide, N=[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-[(tetrahydro-2-oxo-3-furanyl)thio]-1-piperidinyl](9C1) (CA INDEX NAME)

365532-49-6 HCAPLUS
2-Butenamide, N-[4-[3-chloro-4-fluorophenyl] amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-[(2,2-dimethyl-6-oxo-4-morpholinyl)methyl]-1-piperidinyl]- (GCI INDEX NAME)

L4 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

367282-15-3 HCAPLUS
2-Butenamide, N={4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[1-{tetrahydro-2-oxo-3-furanyl}-4-piperidinyl]- (9CI)
(CA INDEX NAME)

L4 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

367282-23-3 HCAPLUS
2-Butenamide, N=[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-(2-oxo-4-morpholinyl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

367282-25-5 HCAPLUS
2-Butenamide, N=[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-[(2R)-2-methyl-6-oxo-4-morpholinyl]-1-piperidinyl](9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

367283-07-6 HCAPLUS
Glycine, N-[1-[4-{[4-[3-chloro-4-fluorophenyl] amino]-7(cyclopropylmethoxy)-6-quinazolinyl] amino]-4-oxo-2-butenyl]-4-piperidinyl]N-[(2R)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX MAME)

Absolute stereochemistry.
Double bond geometry unknown.

ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

367282-27-7 HCAPLUS
2-Butenamide, N={4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolimyl]-4-(4-methyl-2-oxo-1-oxa-4,9-diazaspiro[5.5]undec-9-yl)-(9CI) (CA INDEX NAME)

367282-29-9 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-(2-oxo-3-oxa-9-azaspiro[5.5]undec-9-yl)- (9CI) (CA INDEX NAME)

ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

290303-47-8P 290304-01-7P 365532-06-5P
365532-07-6P 365532-18-9P 365532-19-0P
367282-36-8P 367282-44-8P
RL: RCT (Reactant) SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(preparation of quinazolines as inhibitors of epidermal growth factor-mediated signal transduction)
290303-47-8 HCAPUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-(1-piperazinyl)- (9CI) (CA INDEX NAME)

290304-01-7 HCAPLUS
1-Piperazinecarboxylic acid, 4-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]amino]-4-oxo-2-butenyl]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

$$\begin{array}{c|c} & & & & \\ & &$$

365532-06-5 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-(methylamino)-1-piperidinyl]- (9CI) (CA INDEX NAME)

365532-07-6 HCAPLUS
2-Propenanide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7(cyclopropylmethoxy)-6-quinazolinyl]-3-(4-piperidinyl)- (9CI) (CA INDEX NAME)

ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

367282-44-8 HCAPLUS
1-Fiperidinecarboxylic acid, 4-[[4-[[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-cylinazolinyl]amino]-4-oxo-2-butenyl]methylamino]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT: THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

365532-18-9 HCAPLUS
Carbantc acid, [1-[4-[4-(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylnethoxy)-6-quinazolinyl]amino]-4-oxo-2-butenyl]-4piperidinyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Me} \\ & \text{t-Buo-c-N} \\ & & \\ & \text{N-ch}_2\text{-ch} = \text{ch}_2\text{-c-NH} \\ & &$$

365532-19-0 HCAPLUS
1-Piperidinecarboxylic acid, 4-[3-[[4-{(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]amino]-3-oxo-1-propenyl}-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

367282-36-8 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-(aethyl-4-piperidinylamino)-(9CI) (CA INDEX NAME)

L4 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
135:303901
INVENTOR(5):
Bicyclic heterocycles as inhibitors of epidermal growth factor receptor mediated signal transduction Himmelabach, Frank, Langkopf, Elker Jung, Birgit;
Blech, Stefanr Solca, Flavio
Bookhringer Ingelhetm Pharma KG, Germany
Ger. Offen., 28 pp.
CODEN: GWXERY
FAMILY ACC. NUM. COUNT:
PATENT INTROMATION:
2

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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INFO:: DE 2000-10010525 WO 2001-E75694	DE 10017539 A1 20011011 DE 2000-10017539 2 US 2001044435 A1 20011112 US 2001-e16003 2 US 6627634 B2 20030930 CA 2403152 AA 20011018 CA 2001-2403152 2 VS 2001077104 A1 20011018 VS 2001-E783694 2 CS 2001077104 A1 20011018 VS 2001-E783694 2 CS 2001-	DE 10017539 A1 20011011 DE 2000-10017539 20000 US 2001044435 A1 20011112 US 2001-816003 20010 US 6207634 B2 20030930 CA 2403152 AA 20011018 CA 2001-2403152 20010 W' AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, OZ, EE, ES, FT, GB, GO, GE, GH, HR, HU, 10, 1L, 1N, 1S, JP, RZ, KG, RP, KR, KZ, LC, LK, LA, LT, LU, LV, MA, MO, MG, MK, HM, MV, KX, MZ, NO, NZ, PL, PT, RU, SD, SS, SG, ST, SK, ST, JT, TM, TR, TT, TZ, UA, UG, US, VN, YU, ZA, ZV, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RY: GH, GM, KE, LS, MY, MZ, ST, SL, SZ, TZ, UG, ZY, AT, BE, CH, DE, DK, ES, FI, FR, GB, GB, IE, 1T, LU, MC, NL, PT, SE, TB, AU 2001063831 A5 20011023 EP 1280798 A1 20030205 F2 20031014 US 2001-2535075 T2 20031014 UT APPLN. INFO:: DE 2000-10017539 A 2000

OTHER SOURCE(S): MARPAT 135:303901

L4 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

Bicyclic heterocycles I (X = N, CCN; R = substituted NH2; R1 = H, slkyl; R2 = acyl; R3 = H, (un)substituted alkoxy, cycloalkoxy, tetrahydrofuranyloxy, tetrahydrofuranylmethoxy; tetrahydrofuranylmethoxy; ver prepared for use as inhibitors of tyrosine kinase-mediated signal transduction for treatment of tumors and diseases of the lung and airway. Thus, 4-(3-chloro-d-fluorophenyl)amino]-7-fluoro-6-nitroquinazoline was treated with cyclopropylmethanol, followed by ction

6-nitroquinazoline was treated with cyclopropylmethanol, followed by reduction
to the amine, reaction with 4-bromocrotonic acid and N-tert.butomycarbomylpiperazine, and deblocking to give the quinazoline II. II
had an IC50 for inhibition of epidermal growth factor dependent
proliferation of 0.05 mM.
II 365532-35-0P 365532-39-4P 365532-42-9P
365532-45-2P 365532-47-4P 365532-48-5P
365532-49-GP

365512-49-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of biocyclic haterocycles as inhibitors of epidermal growth factor receptor mediated signal transduction)
365512-35-0 BCAPLUS
2-Butenamide, N-[4-[4]-chloro-4-fluorophenyl] amino]-7-(cyclopropylmethomy)-6-quinazolinyl]-4-[4-(tetrahydro-2-oxo-3-furanyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

365532-39-4 HCAPLUS
2-Butenamide, N={4-{(3-chloro-4-fluorophenyl)amino}-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-{4-(tetrahydro-5-oxo-3-furanyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

365532-47-4 HCAPLUS
2-Butenamide, N=[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-(hexahydro-1-oxopyrazino[2,1-c][1,4]oxazin-8(1H)-yl)-(9CI) (CA INDEX NAME)

365532-48-5 HCAPLUS
2-Butenamide, N-{4-{(3-chloro-4-fluorophenyl)amino}-7-(cyclopropylmethoxy)-6-quinacolinyl]-4-{(tetrahydro-2-oxo-3-furanyl)thio}-1-piperidinyl](9CI) (CA INDEX NAME)

365532-49-6 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-[(2,2-dimethyl-6-oxo-4-morpholinyl)methyl]-1-piperidinyl]-(GA INDEX NAME)

ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

365532-42-9 HCAPLUS
2-Butenamide, N-[4-[3-chloro-4-fluorophenyl] amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-[2-[(tetrahydro-2-oxo-3-furanyl)thio]ethyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

365532-45-2 HEAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinacolinyl]-4-(hexahydro-3-oxopyrazino[2,1-c][1,4]oxazin-8(1H)-yl)-(9CI) (CA INDEX NAME)

ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

290303-47-8P 290304-01-7P 365532-06-5P 365532-07-6P 365532-10-1P 365532-18-9P 365532-21-4P 365532-18-9P 365532-14-P 365532-18-P 365532-18-

290304-01-7 HCAPLUS
1-Piperazinecarboxylic acid, 4-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylaethoxy)-6-quinazolinyl]amino]-4-oxo-2-butenyl]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

$$\begin{array}{c|c} & & & & \\ & &$$

365532-06-5 HCAPLUS
2-Butenamide, N-{4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-(methylamino)-1-piperidinyl]- (9CI) (CA INDEX NAME)

365532-07-6 HCAPLUS
2-Propenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7(cyclopropylmethoxy)-6-quinazolinyl]-3-(4-piperidinyl)- (9CI) (CA INDEX NAME)

ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

365532-21-4 HCAPLUS
Carbamtc acid, [4-[4-[[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]amino]-4-oxo-2-butenyl]-1piperidinyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

365532-36-1P 365532-37-2P 365532-39-3P 365532-40-7P 365532-41-8P 365532-43-0P 365532-44-1P 365532-46-3P RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREF (Preparation); USES (Uses) (preparation of bicyclic heterocycles as inhibitors of epidermal growth factor receptor mediated signal transduction)
365522-36-1 HCAPLUS
2-Butenamide, N-{4-{(3-chloro-4-fluorophenyl)amino}-7-(cyclopropylmethoxy)-6-quinazolinyl-4-(4-[(2R)-tetrahydro-5-oxo-2-furanyl]methyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown

ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

365532-10-1 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[1-(methylamino)-4-piperidinyl]- (9CI) (CA INDEX NAME)

365532-18-9 HCAPLUS
Carbamic acid, [1-[4-[4-[4-(3-chloro-4-fluorophenyl)amino]-7(cyclopropylaethoxy)-6-quinazolinyl]amino]-4-oxo-2-butenyl]-4piperidinyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

365532-19-0 HCAPLUS
1-Piperidinecarboxylic acid, 4-[3-[4-[(3-chloro-4-fluorophenyl)amino]-7(cycloproylmathoxy)-6-quinazolinyl]amino]-3-oxo-1-propenyl]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

365532-37-2 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-[methyl(tetrahydro-2-oxo-3-furanyl)amino]-1-piperidinyl]- (9CI) (CA INDEX NAME)

365532-38-3 HCAPLUS
2-Butenamide, N={4-{(3-chloro-4-fluorophenyl)amino}-7-(cyclopropylmethoxy)-6-quinazolinyl}-4-{1-[methyl(tetrahydro-2-oxo-3-furanyl)amino}-4-piperidinyl]-(OI INDEX NAME)

L4 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

365532-40-7 HCAPLUS
2-Propenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7(cyclopropylmethoxy)-6-quinazolinyl]-3-[1-(tetrahydro-5-oxo-3-furanyl)-4piperidinyl]- (9CI) (CA INDEX NAME)

365532-41-8 HCAPLUS
2-Butenamide, N={4-{(3-chloro-4-fluorophenyl)amino}-7-(cyclopropylmethoxy)-6-quinazolinyl}-4-{4-{(1(25)-tetrahydro-5-oxo-2-furanyl]carbonyl}-1-piperazinyl}- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

365532-46-3 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl) amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-(1-oxo-2-oxa-8-azaspiro[4.5]dec-8-yl)- (9CI) (CA INDEX NAME)

ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

365532-43-0 HCAPLUS
2-Butenamide, N=[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-[4-(tetrahydro-2-oxo-3-furanyl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

365532-44-1 HCAPLUS
2-Butenamide, N-[4-[(3-chloro-4-fluorophenyl) amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]-4-(3-oxo-2-oxa-8-azaspiro[4.5]dec-8-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 19 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001;380438 HCAPLUS
DOCUMENT NUMBER: 135;26657
TITLE: Selective cellular targeting: multifunctional delivery vehicles
INVENTOR(S): Glazier, Arnold
PATENT ASSIGNEE(S): Glazier, Arnold
Drug Innovation & Design, Inc., USA
PCT Int. Appl., 981 pp.
CODEN: PIXXO2
DOCUMENT TYPE: PATENT INFORMATION: 1
English
FAMILITY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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	CR, CU,	CZ, E	DE, DK,	DM, DZ,	EE, ES,	FI, GB,	GD, GE	5, GH,	GM, HR,		
	HU, ID,	IL, I	N, 15,	JP, KE,	KG, KP,	KR, KZ,	IC, U	C. LR.	LS, LT,		
				MK, MN,							
				SL, TJ.							
				BY, KG.				.,	,,		
RW:				MZ, SD,				. BE.	CH. CY.		
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				GA, GN,					IK, DE,		
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	IE, SI,	LT, I	.V. FI,	RO, MK,	CY, AL,	TR					
US 2003	138432		A1	20030724	US 2	000-7386	25	2	0001215		
PRIORITY APP	LN. INFO	. :			US 1	999-1654	85P	P 1	9991115		
					US 2	000-2394	78P	P 2	0001011		
						000-2419			0001020		
						000-us31					
						000-0331			0001115		
					03 2	000-1124	00	D1 2	0001113		

W0 2000-US31262 V 20001114 US 2000-T12465 B1 20001115
The present invention relates to the compns., methods, and applications of a novel approach to selective cellular targeting. The purpose of this invention is to enable the selective delivery and/or selective activation of effector mols. to target cells for diagnostic or therapeutic purposes. The present invention relates to multi-functional prodrugs or targeting vehicles wherein each functionality is capable of enhancing targeting selectivity, affinity, intracellular transport, activation or detoxification. The present invention also relates to ultralow dose, multiple target, multiple drug chemotherapy and targeted immunotherapy for cancer treatment.
341551-81-3P
RL: PRU (Preparation, unclassified): RCT (Reactant): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): RACT (Reactant or reagent): USES (Uses)
(multifunctional delivery vehicles for selective cellular targeting of drugs)
341551-81-3 HCAPLUS
2-Propenamide, N-[7-[3-aminopropoxy)-4-[(3-chloro-4-fluorophenyl)amino]-6-quinazolinyl]- (SCI) (CA INDEX NAME)

L4 ANSWER 19 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

ANSWER 20 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

31

REFERENCE COUNT:

THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER:

2001:367797 ECAPLUS

DOCUMENT NUMBER:

135:102151

ITITLE:

ARK, MAPK (Erkl/2), and p30 act in concert to promote apoptosis in response to ErbB receptor family inhibition

AUTHOR(5):

Nelson, James M., Fry, David W.

CORPORATE SOURCE:

Pfizer Global Research and Development, Ann Arbor, MI, 48105, USA

SOURCE:

JOURNAI of Biological Chemistry (2001), 276(18), 1642-16847

CODEN; JBCHA3, ISSN: 0021-9258

PUBLISHER:

American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE:

JOURNAI SOURCE:

JOURNAI SOURCE:

JOURNAI SOURCE:

JOURNAI SOURCE:

JOURNAI OF BETDB receptor family is implicated in the malignant transformation of several tumor types and is over-expressed frequently in breast, ovarian, and other tumors. The mechanism by which CI-1033 and genetitabine, either singly or in combination, kill tumor cells was examined in two breast lines, MDA-HB-453 and BT474; both overexpress the ErbB-2 receptor. CI-1033, a potent inhibitor of the ErbB family of receptor tyrosine kinases, reduced levels of activated Akt in MDA-HB-453 cells. This effect alone, however, did not induce apoptosis in these cells. Geneticabine treatment resulted in a moderate increase in the percentage of apoptotic cells that was accompanied by activation of p38 and MAPK (ERKI/2). CI-1033 given 24 h after geneticabine produced a significant increase in the apoptotic fraction over treatment of the erba decided the same results as the combination of CI-1033 and geneticabine. P38 suppression by SB203580 prevented the enhanced cell kill by CI-1033. In contrast to MDA-HB-453 in the produced the same results as the combination of CI-1033 and geneticabine. P38 suppression by SB203580 prevented the enhanced cell kill by CI-1033. In increase of conditions as well as activated Akt and MAPK and not resulted in a 47% apoptotic fraction over treatment of B474 cells with CI-1033 inhibited both the phosphorylation of Akt and MAPK and resulted in a 47% apoptotic fraction of CI-1033 and geneticabine. P38 suppression by SB203580 preven

L4 ANSWER 21 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:125550 HCAPLUS

DOCUMENT NUMBER: 134:348032

THE HER tyrosine kinase inhibitor CI1033 enhances cytotoxicity of 7-ethyl-10-hydroxycamptothecin and topotacan by inhibiting breast cancer resistance protein-mediated drug efflux

AUTHOR(5): Erlichman, Charless Boerner, Scott A., Hallgran, Christopher G., Spieker, Rebecca, Wang, Xiao-Yang, James, C. David's Scheffer, George L., Maliepaard, Marcr Ross, Douglas D., Bible, Keith C., Kaufmann, Scott H.

CORPORATE SOURCE: Division of Medical Oncology, Mayo Clinic, Hayo Graduse School, Rochester, MN, 55905, USA Cardinae School, Rochester, MN, 55905, USA Cardinae, Roc

L4 ANSVER 21 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

REFERENCE COUNT

THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 74

ANSWER 22 OF 25 HCAPLUS COPYRIGHT 2006 ACS OD STN (Continued)

48

REFERENCE COUNT:

THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: DOCUMENT NUMBER:

ANSVER 22 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
SSION NUMBER: 2000:828300 BCAPLUS
E: 2000:828300 BCAPLUS
E: Radiosensitization of human breast cancer cells by a novel ErbB family receptor tyrosine kinase inhibitor NORATE SOURCE: Pepartment of Radiation Oncology, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI, USA AUTHOR(S): CORPORATE SOURCE:

Hichigan Comprehensive Cancer Center, Ann Arbor, MI, USA
SOURCE: International Journal of Radiation Oncology, Biology, Physics (2000), 48(5), 1519-1528
CODEN: IORDEN ISSN: 0360-3016
PUBLISHER: Elsevier Science Inc.
DOCUMENT TYPE: Journal LANGUAGE: English
AB Purpose: Overexpression of the BrbB family of growth factor receptors is present in a wide variety of human tumors and is correlated with poor prognosis. The purpose of this study was to determine the effects of a novel

prognosis. The purpose of this study was to determine the effects of a novel small mol. ErbB tyrosine kinase inhibitor, CI-1033, in combination with ionizing radiation on breast cancer cell growth and survival. Materials & Methods: Growth assays were performed on ErbB-overexpressing human breast cancer cells developed in our laboratory in the presence of 0.1-1.0 µM CI-1033 (Parke Davis). Clonogenic survival assays were performed in the presence of ionizing radiation with or without CI-1033. For some expts., clonogen nos., defined as the product of surviving fraction and total number of cells, were calculated at each time point during a course of multifraction radiation. Results: CI-1033 potently inhibited the growth of ErbB-overexpressing breast cancer cells. A single 48-h exposure of 1 µM CI-1033 resulted in growth inhibition for 7 days, whereas three times weekly administration resulted in sustained growth inhibition. Clonogenic survival was modestly decreased after a 7-day exposure to CI-1033. Exposure to both CI-1033 and radiation alone. In a multifraction experiment, exposure to CI-1033 and three 5-Gy fractions of gamma

radiation decreased the total number of clonogens in the population by 65-fold compared to radiation alone. Conclusion: CI-1033 results in potent growth inhibition and modest cytotoxicity of ErbB-overexpressing breast cancer cells, and has synergistic effects when combined with ionizing radiation. These data suggest that CI-1033 may have excellent clin. potential both alone and in combination with radiation therapy. 267243-28-7, CI-1033
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(radiosensitization of human breast cancer cells by ErbB family receptor tyrosine kinase inhibitor)
267243-28-7 HCAPIUS
2-Propensmide, N-[4-([3-chloro-4-fluorophenyl)amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

LANGUAGE:

MENT TYPE: Journal MAGE: English Six author names were inadvertently omitted from the author contribution line. The complete author list is as follows: Jeff B. Smaill, Gordon W. Revcastle, Alexander J. Bridges, Hairong Zhou, H. D. Hollis Showalter, David W. Fry, James M. Nelson, Veronika Sherwood, William L. Elliott, Patrick W. Vincent, Dana B. DeJohn, Joseph A. Loo, Kenneth D. Greis, O. Helen Chan, Eric L. Reyner, Elke Lipks, and William A. Denny. 198950-99-8P 198960-00-8P 198960-01-3P 198960-01-2P 198960-01-3P 200-01-2P 198960-01-3P 200-01-3P 200-0

ΙT

267243-29-8P

RI: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(Preparation)
(antitumor and EGFR enzyme-inhibiting SAR of quinazolines (Erratum))
19859-99-8 HCAPLUS
2-Propenamide, N-(4-[(3-bromophenyl)amino]-7-{3-(4-morpholinyl)propoxy)-6quinazolinyl]- (9CI) (CA INDEX NAME)

198960-00-8 HCAPLUS

2-Propenamide, N-[4-[(3-methylphenyl)amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

ANSWER 23 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

198960-01-9 HCAPLUS
2-Propenamide, N-[4-[(3-methylphenyl)amino]-7-[3-(4-methyl-1-piperaxinyl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

198960-02-0 HCAPLUS
2-Propenamide, N-[4-[(3-bromophenyl)amino]-7-[3-(4-methyl-1-piperazinyl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

198960-04-2 HCAPLUS
2-Propenamide, N-[4-[(3-bromophenyl)amino]-7-[3-(1H-imidazol-1-yl)propoxy]-6-quinazolinyl]- (GA INDEX NAME)

ANSWER 23 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

267243-28-7 BCAPLUS
2-Propenamide, N-[4-[(3-chloro-4-fluorophenyl) amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

267243-29-8 HCAPLUS
2-Propenamide, N-[4-[(3-chloro-4-fluorophenyl)amino]-7-[2-[2-(2-methoxyl-thoxy)ethoxyl-6-quinazolinyl]- (9CI) (CA INDEX NAME)

ANSWER 23 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

198960-05-3 HCAPLUS
2-Propenamide, N-[4-[(3-bromophenyl)amino]-7-[4-(dimethylamino)butoxy]-6quinazolinyl]- (9C1) (CA INDEX NAME)

267243-26-5 HCAPLUS
2-Propenamide, N-[4-[(3-bromophenyl)amino]-7-[[3(diethylamino)propyl)thio]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

267243-27-6 HCAPLUS 2-Propenamide, N-[4-[(3-bromo-4-fluorophenyl)amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 24 OF 25 HCAPIUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:164843 HCAPIUS

DOCUMENT NUMBER: 132:317628

Tyrosine kinase inhibitors. 17. Irreversible inhibitors of the epidermal growth factor receptor: 4-(Phenylamino) pyrido(3,2-d) pyrimidine-6-acrylamides bearing additional solubilitying functions

AUTHOR(S): Smaill, Jeff B., Revcastle, Gordon W., Loo, Joseph A., Greis, Kenneth D., Chan, O., Belenn Reyner, Eric L., Lipka, Elkes Showalter, H. D. Hollier, Vincent, Patrick W., Elliott, William L., Denny, William C., Corror, Lipka, Elkes Showalter, H. D. Hollier, Vincent, Patrick W., Elliott, William L., Denny, William C., Denny, William

quinazolines proved superior to previous analogs in terms of aqueous solubility, potency, and in vivo antitumor activity, and one example (CI 1033) has been selected for clin. evaluation.

IT 18855-99-9F 18960-00-FP 18960-01-9P 18960-01-9P 18960-02-0P 18960-02-0P 18960-02-2P 267243-28-7P 267243-26-5P 267243-27-8 267243-28-PP 27243-29-9P
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PREP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP

ANSVER 24 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AMSYER 24 OF 25 HCAPJUS COPTRIGHT 2000 ALS ON SIR (CONTRIGHT)
(Preparation)
(antitumor and EGFR enzyme-inhibiting SAR of quinazolines)
19859-99-8 HCAPJUS
2-Proponamide, N-[4-((3-bromophenyl)amino]-7-[3-(4-morpholinyl)propoxy)-6quinazolinyl]- (9C1) (CA INDEX NAME)

198960-00-8 HCAPLUS
2-Propenamide, N-[4-[(3-methylphenyl)amino]-7-[3-(4-morpholinyl)propoxy]-6quinazolinyl]- (9CI) (CA INDEX NAME)

198960-01-9 HCAPLUS
2-Propenamide, N-[4-[(3-methylphenyl)amino]-7-[3-(4-methyl-1-piperazinyl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN quinazolinyl]- (9CI) (CA INDEX NAME) (Continued)

267243-26-5 HCAPLUS
2-Propenamide, N-[4-[(3-bromophenyl)amino]-7-[[3-(dieth)lamino]propyl]thio]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

267243-27-6 HCAPLUS
2-Propenamide, N-[4-[(3-bromo-4-fluorophenyl)amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

267243-28-7 HCAPLUS
2-Propenamide, N-[4-[43-chloro-4-fluorophenyl) amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

198960-02-0 HCAPLUS
2-Propensmide, N-[4-[(3-bromophenyl)amino]-7-[3-(4-methyl-1-piperazinyl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

198960-04-2 HCAPLUS 2-Propenamide, N-[4-[(3-bromophenyl)amino]-7-[3-(1H-imidazol-1-yl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

198960-05-3 HCAPLUS 2-Propenamide, N-[4-[(3-bromophenyl)amino]-7-[4-(dimethylamino)butoxy]-6-

ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

267243-29-8 HCAPLUS
2-Propenamide, N-(4-[(3-chloro-4-fluorophenyl)amino]-7-(2-[2-(2-methoxyethoxy)ethoxy]-6-quinazolinyl)- (9CI) (CA INDEX NAME)

REFERENCE COUNT: THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:113656 HCAPLUS
DOCUMENT NUMBER: 130:169387
ITILE: 130:169387
Irreversible inhibitors of tyrosine kinases
BYATENT ASSIGNEE(S): 80:16928, Alexander James
Varner-Lambert Company, USA
POT Int. Appl., 124 pp.
COUDENT TYPE: COUDENT TYPE: Patent
LANGUAGE: FAMILY ACC, NUM. COUNT: 1
English
FAMILY ACC, NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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								UA,										
				TJ,														
		RV:	GH,	GH,	KE,	LS.	MW,	SD,	SZ.	UG.	ZW.	AT.	BE.	CH.	CY.	DE.	DK.	ES
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											US I	999-	2695	45			9990	

WO 1998-USIS784 V 19980729
US 1999-265345 A 19990325
OTHER SOURCE(S): MARPAT 130:168387

AB Pyrimidine derivs. that are irreversible inhibitors of tyrosine kinases are reported. Thus, PhCH2OH was treated with 4-PCGH4MO2 to give 4-PhcH2OCGH4MO2, which was reduced to the amine and used to aminate 4-chloro-6-nitroquinazoline hydrochloride. The resulting 6-nitro-4-(4-benzyloxyanlino)quinazoline hydrochloride was reduced to the amine and acylated to give N-[4-(4-benzyloxyanlino)quinazolin-6-yllacrylamide (I). I had an ICSO for inhibition of epidermal growth factor receptor tyrosine kinase of 3.6 mM.

IT 220488-46-0P 220489-47-1P 220489-48-2P 220489-89-4P 220489-89-4P 220489-89-837
220489-89-4P 220489-87-2P 220489-88-3P (preparation), USES (Uses) (preparation of anilinoquinazolinylacrylamides and related compds. as tyrosine kinase inhibitors)

RN 22048-46-0 RCAPUIS
CN 2-Propenamide, N-[7-[3-(4-morpholinyl)propoxy]-4-[(4-phenoxyphenyl)amino]-6-quinazolinyl]- (SCI) (CA INDEX NAME)

ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) (phenylmethoxy) phenyl} aminoj -6-quinazolinyl] - (9CI) (CA INDEX NAME)

220489-87-2 HCAPLUS
2-Propenamide, N-[4-[[4-(3-cyanobenzoyl)phenyl]amino]-7-[3-(4-morpholinyl)propoxy]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

220489-88-3 HCAPLUS
2-Propenamide, N-[7-[4-(dimethylamino)butoxy]-4-[[3-methoxy-4-(phenylmethoxy)phenyl]amino]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

220488-47-1 HCAPLUS
2-Propenamide, N-[7-[4-(dimethylamino)butoxy]-4-[[4-(phenylmethoxy)phenyl]amino]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

220488-48-2 HCAPLUS
2-Propenamide, N-[7-[4-(dimethylamino)butoxy]-4-[(4-phenoxyphenyl)amino]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

220488-49-3 HCAPLUS 2-Propenamide, N-[7-[3-(4-morpholinyl)propoxy]-4-[[4-

ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

220489-89-4 HCAPLUS
2-Propenamide, N-[4-[[3-chloro-4-(2-pyridinylcarbonyl)phenyl]amino]-7-[4-(dimethylamino)butoxy]-6-quinazolinyl]- [9CI] (CA INDEX NAME)

220489-90-7 HCAPLUS
2-Propenamide, N-[4-[[3-methoxy-4-(phenylmethoxy)phenyl]amino]-7-[3-(4-morpholinyl)propoxyl-6-quinazolinyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT